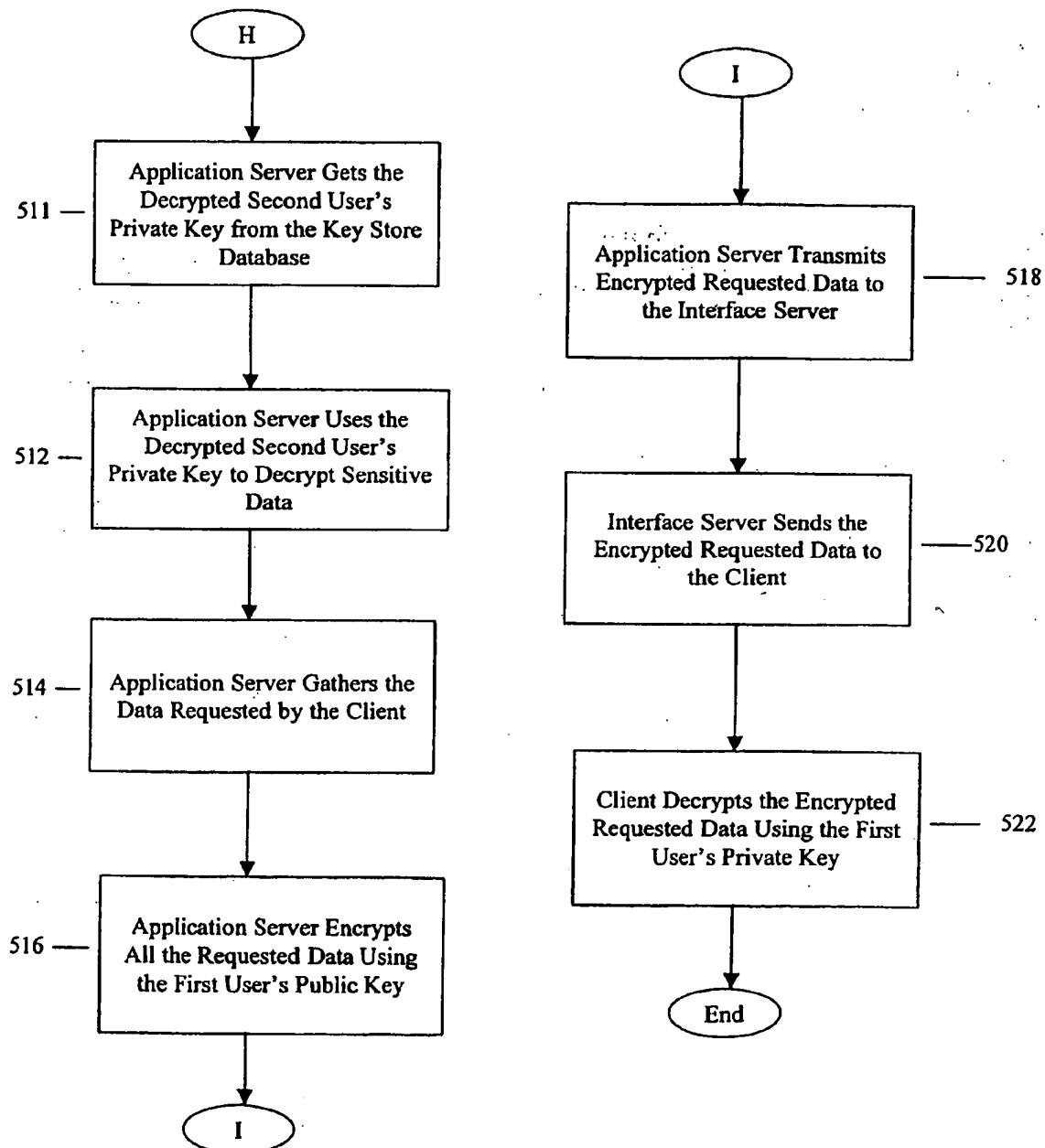




FIG. 5 (continued)

Accessing Sensitive Data (Cont.)



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Fig. 1a

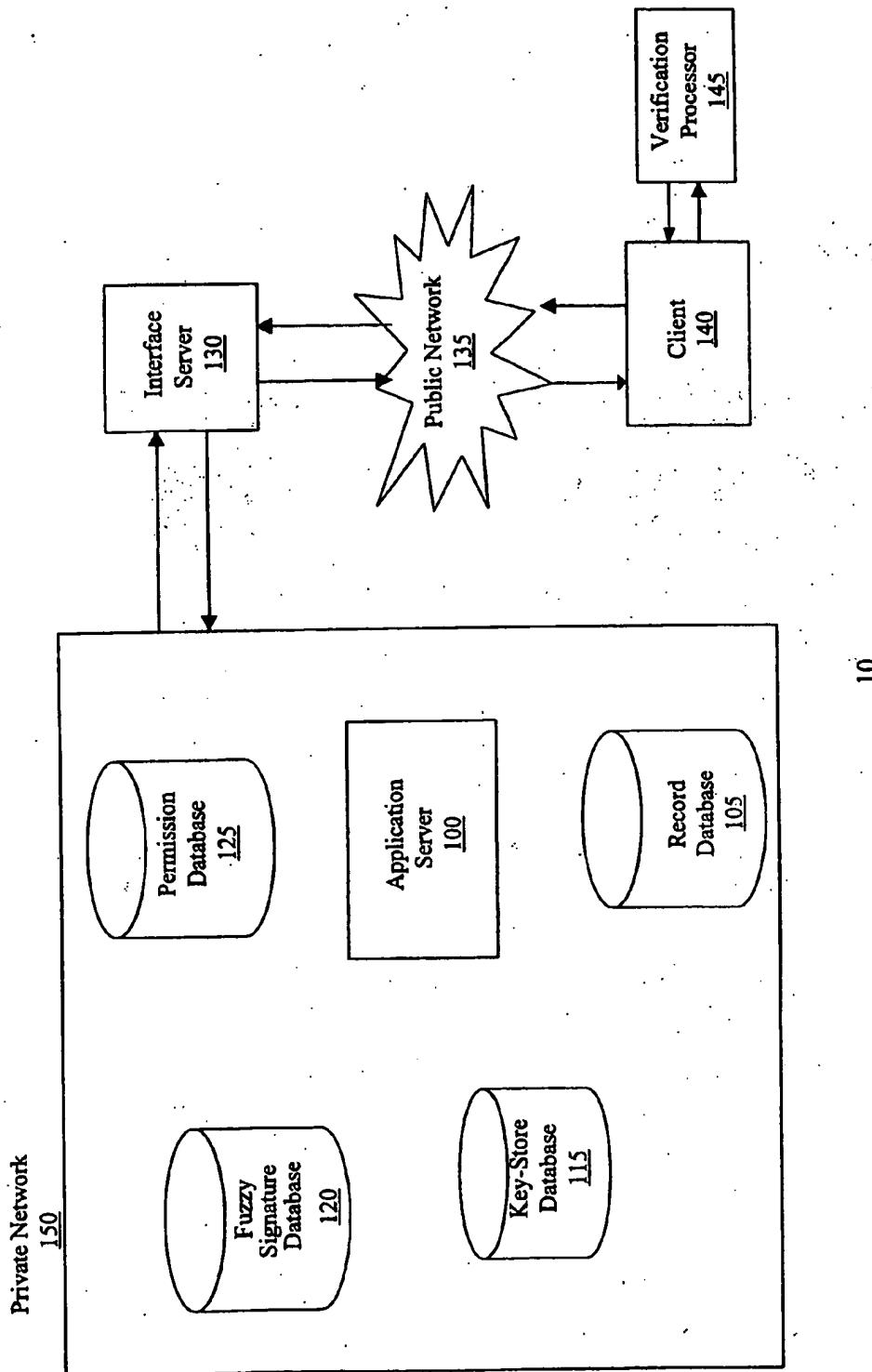
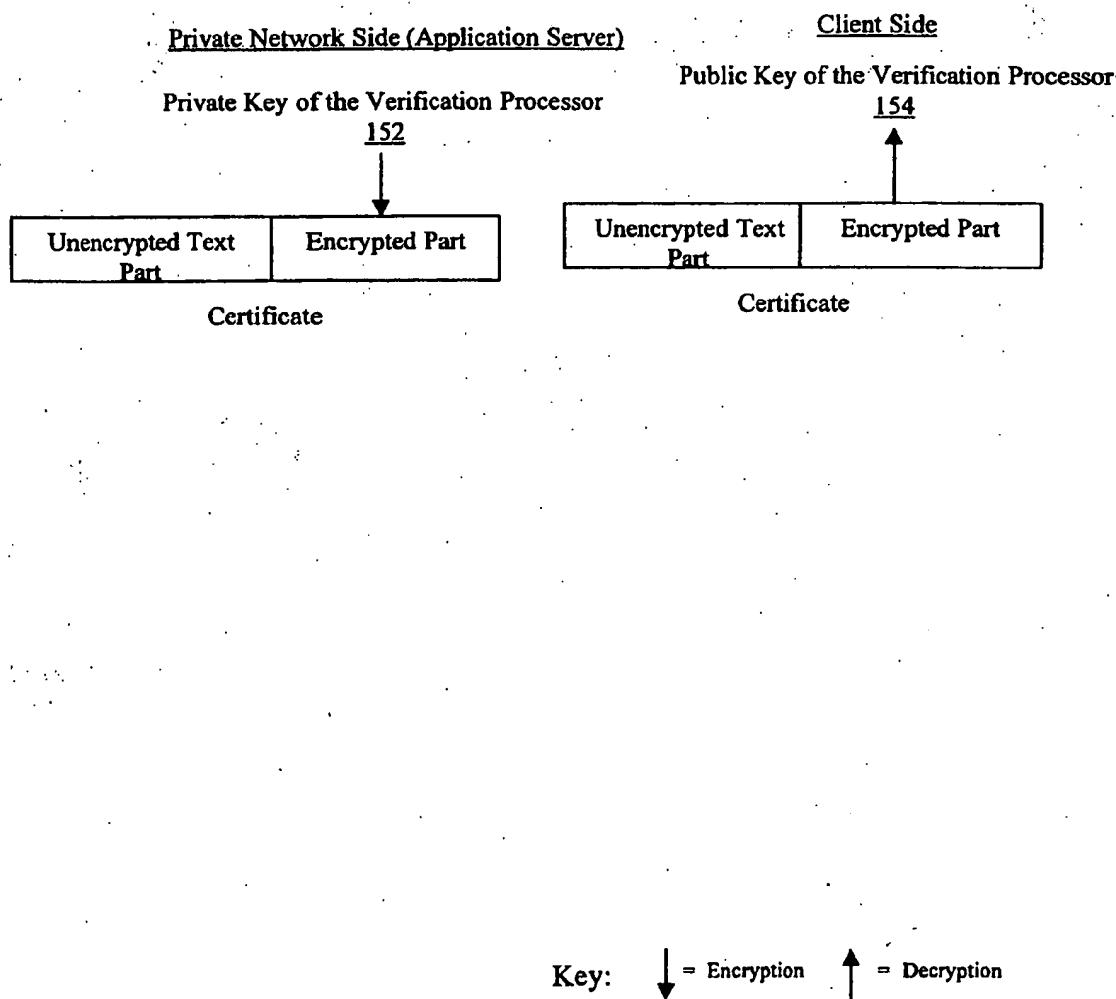




Fig. 1b

Keys Used for Authenticating the
Interface Server

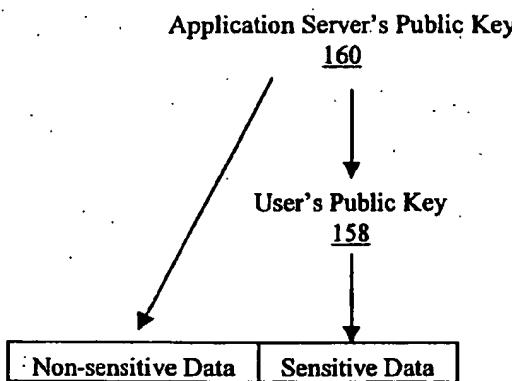


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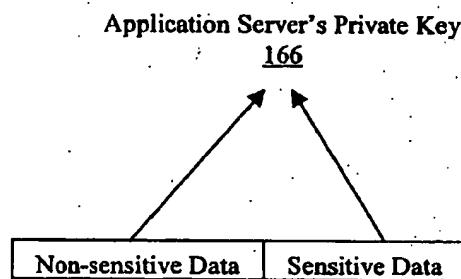
Fig. 1c

Keys Used in Transmitting, Receiving,
and Storing Data

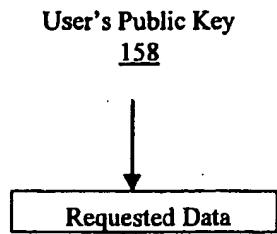
Client Transmitting Data
to a Private Network (Application Server)



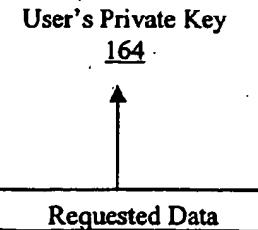
Private Network (Application Server)
Receiving and Storing Data



Private Network (Application Server)
Transmitting Data to Client



Client Receiving Data



Key: ↓ = Encryption ↑ = Decryption



Fig. 1d

Keys Utilized in Fuzzy Searching

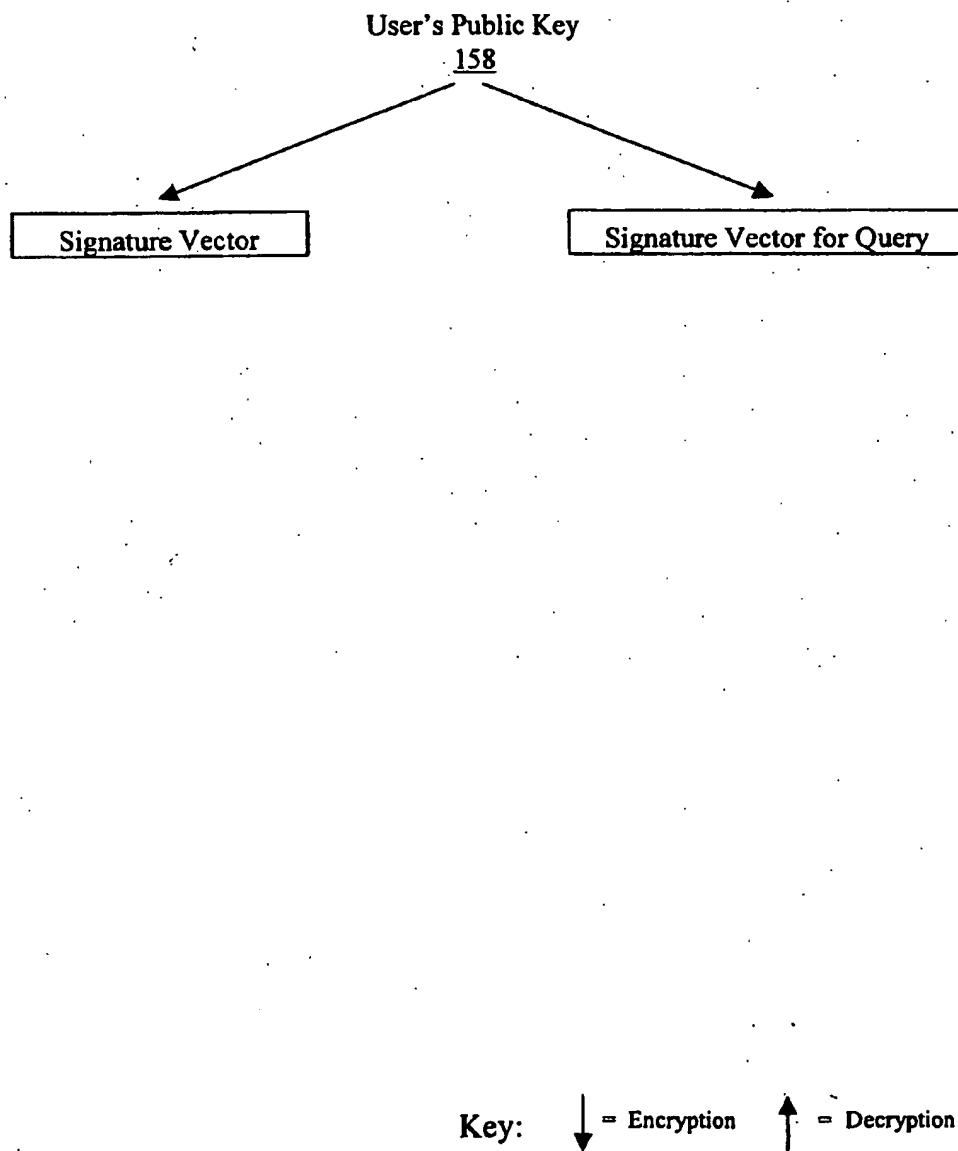
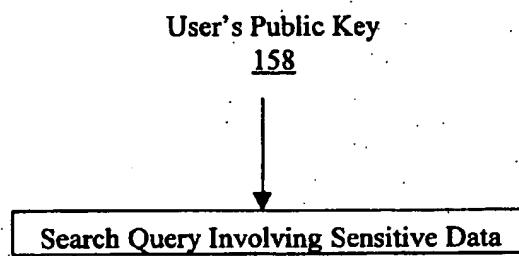




Fig. 1e

Keys Utilized in Relational Database Searching

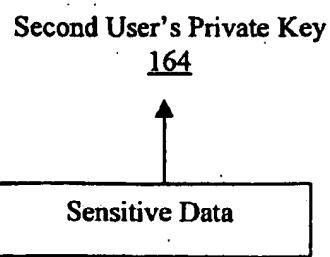
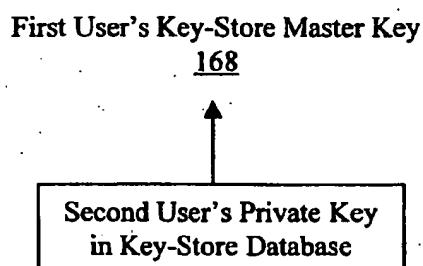


Key: \downarrow = Encryption \uparrow = Decryption



Fig. 1f

Keys Utilized in Accessing Sensitive Data



Key: ↓ = Encryption ↑ = Decryption

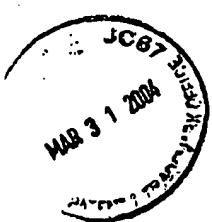


Fig. 1h

Steps for Communications between a Client and a Private Network

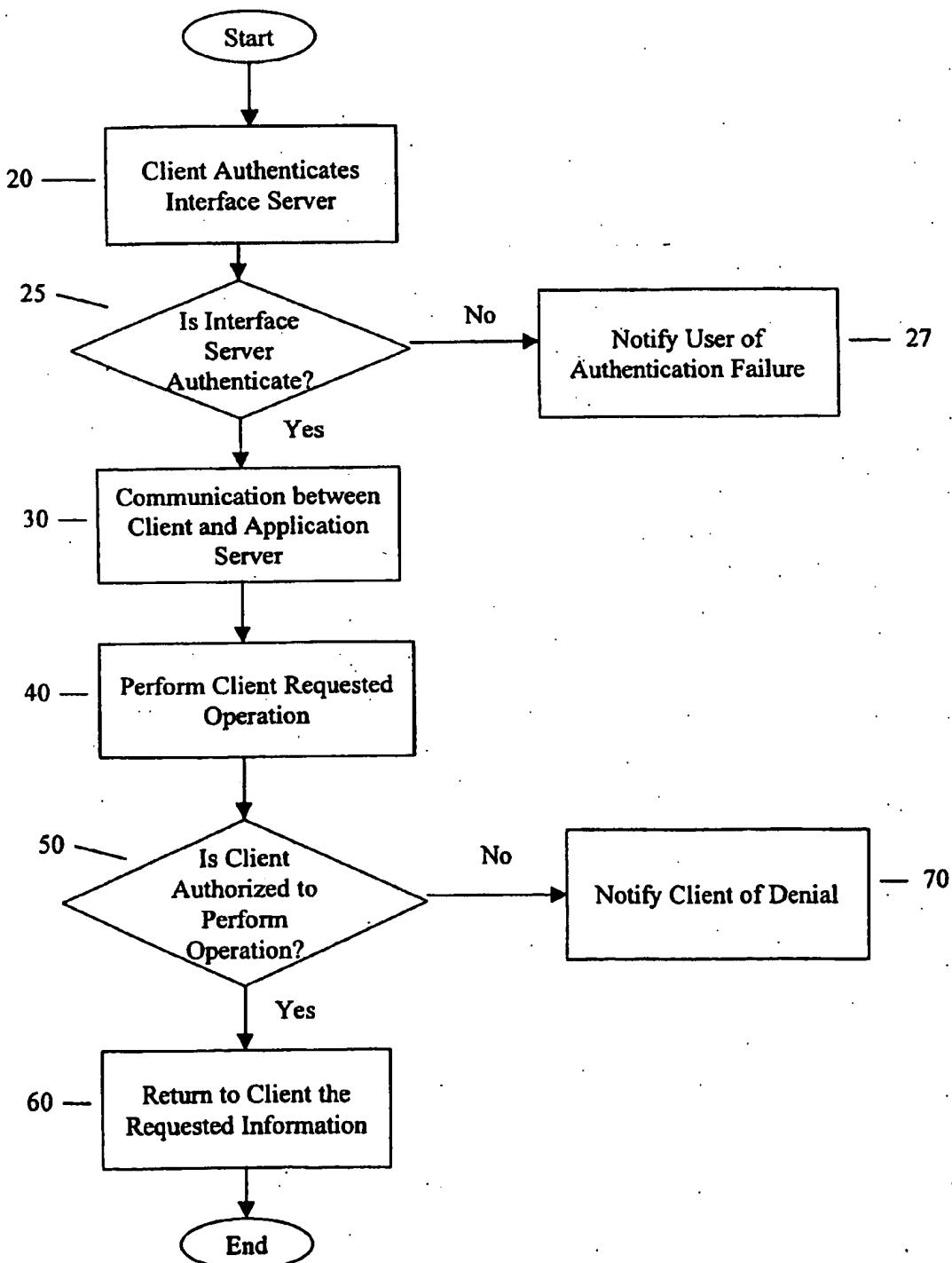
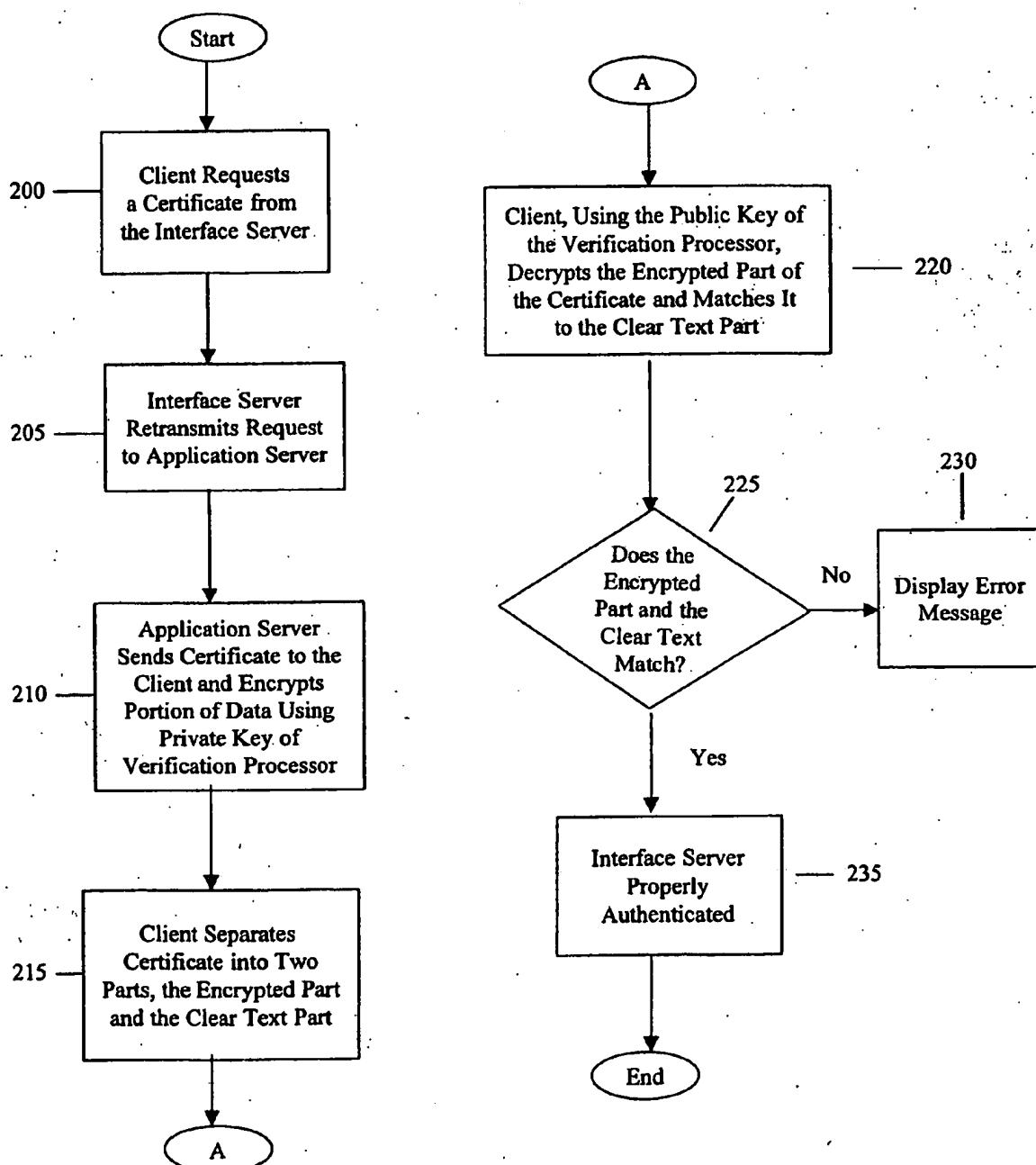




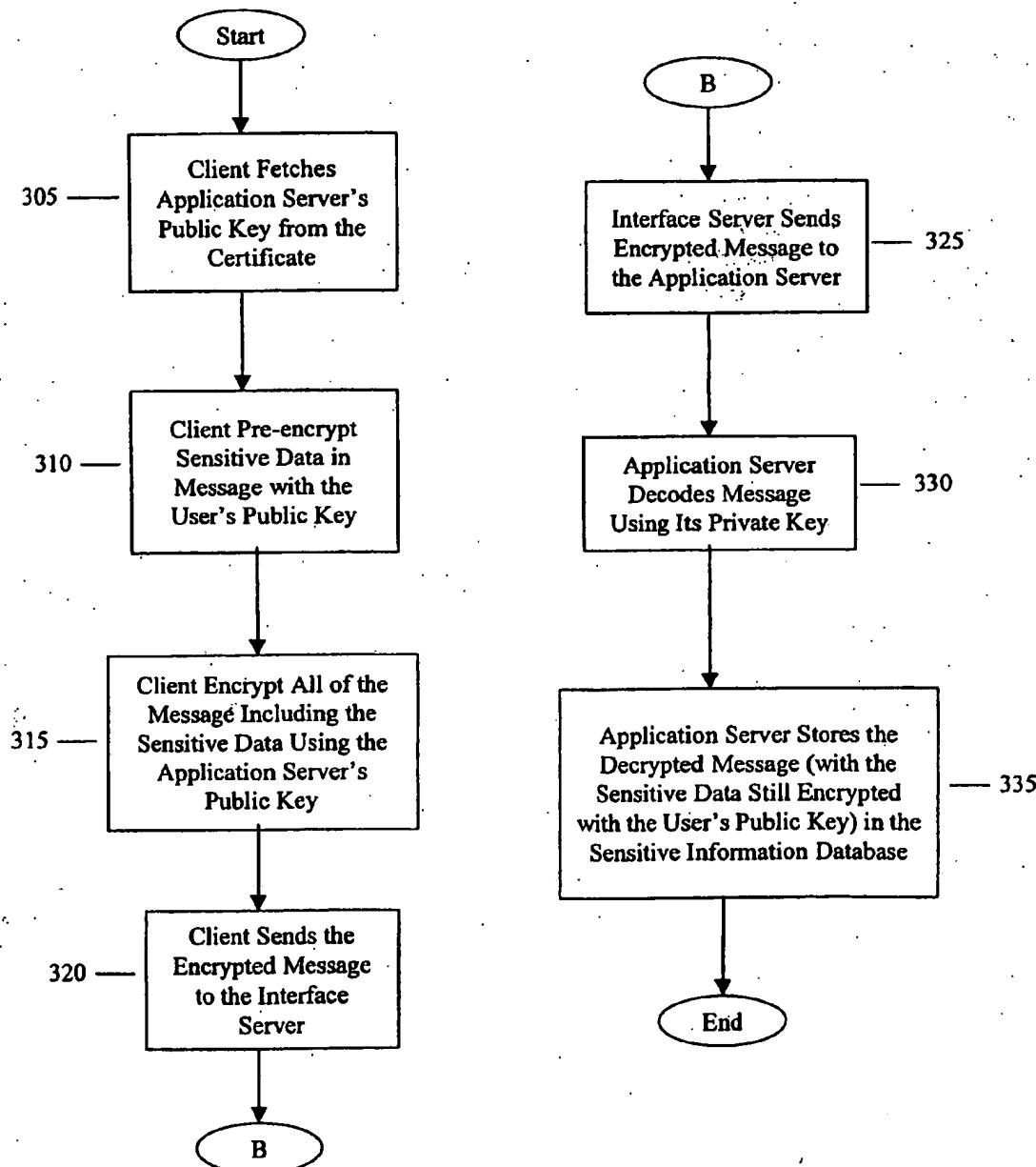
Fig. 2
Authentication



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Fig. 3

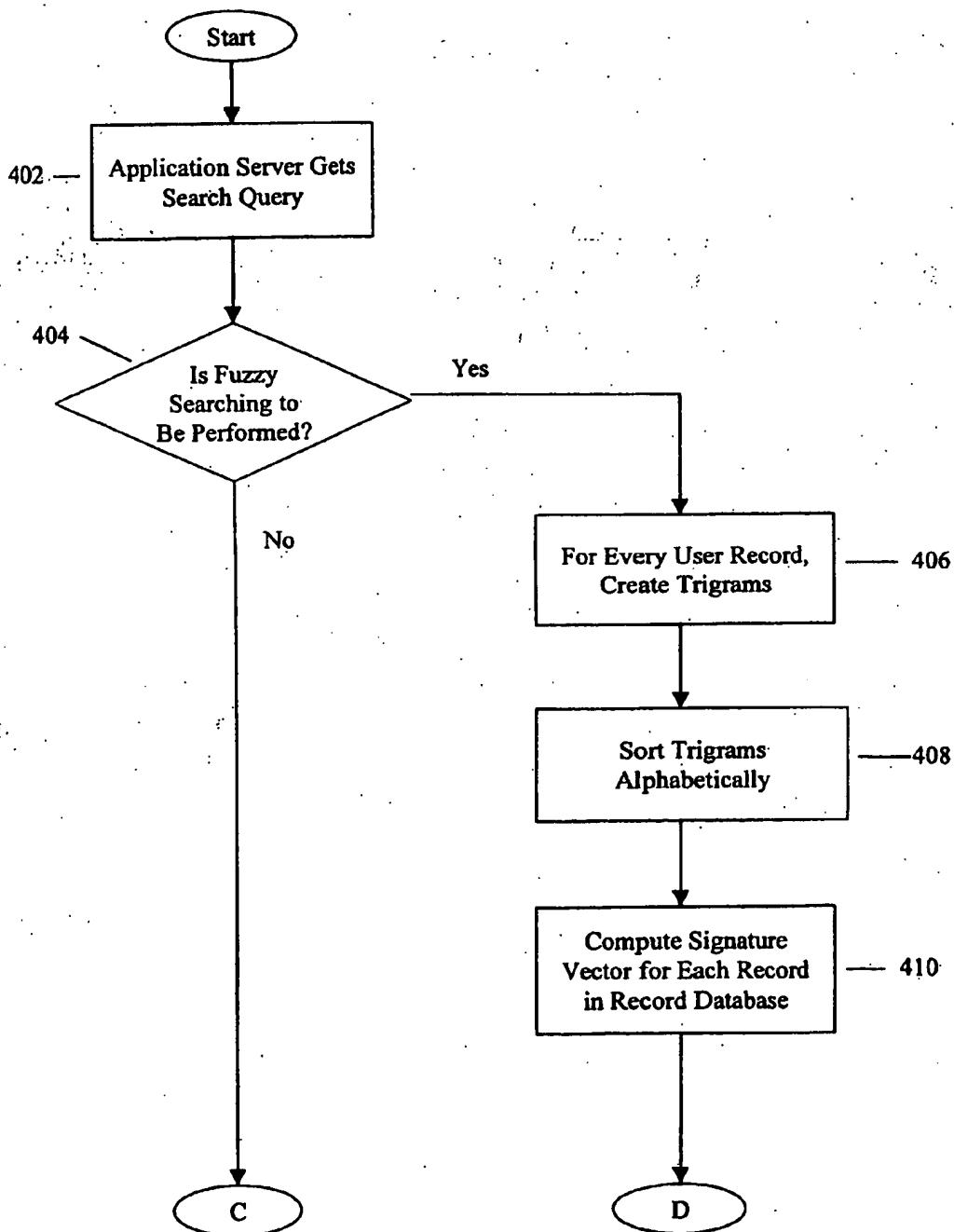
Transmission and Storage of Data



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FIG. 4

Search Operation



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FIG. 4 (continued)

Search Operation

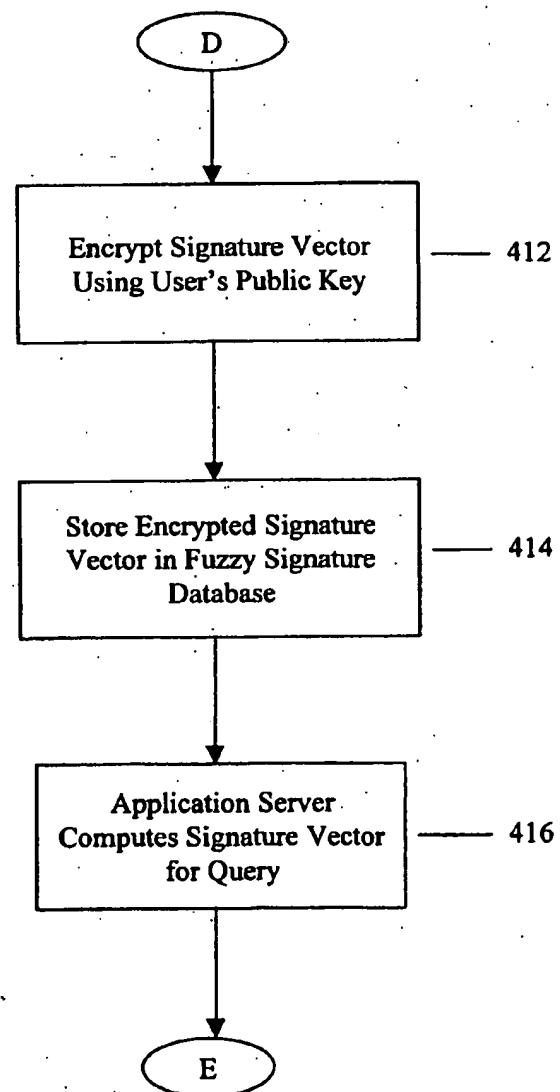
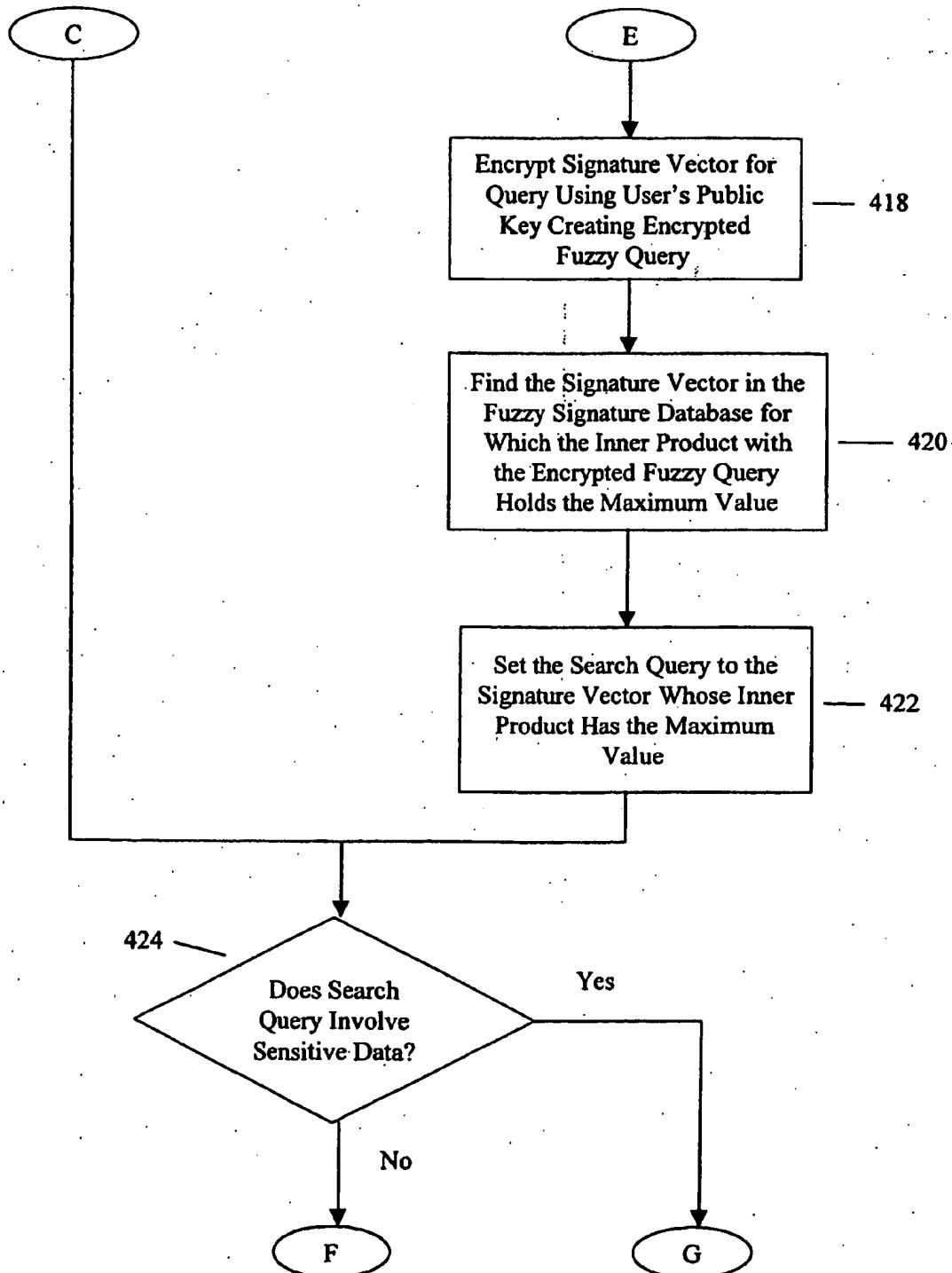




FIG. 4 (continued)

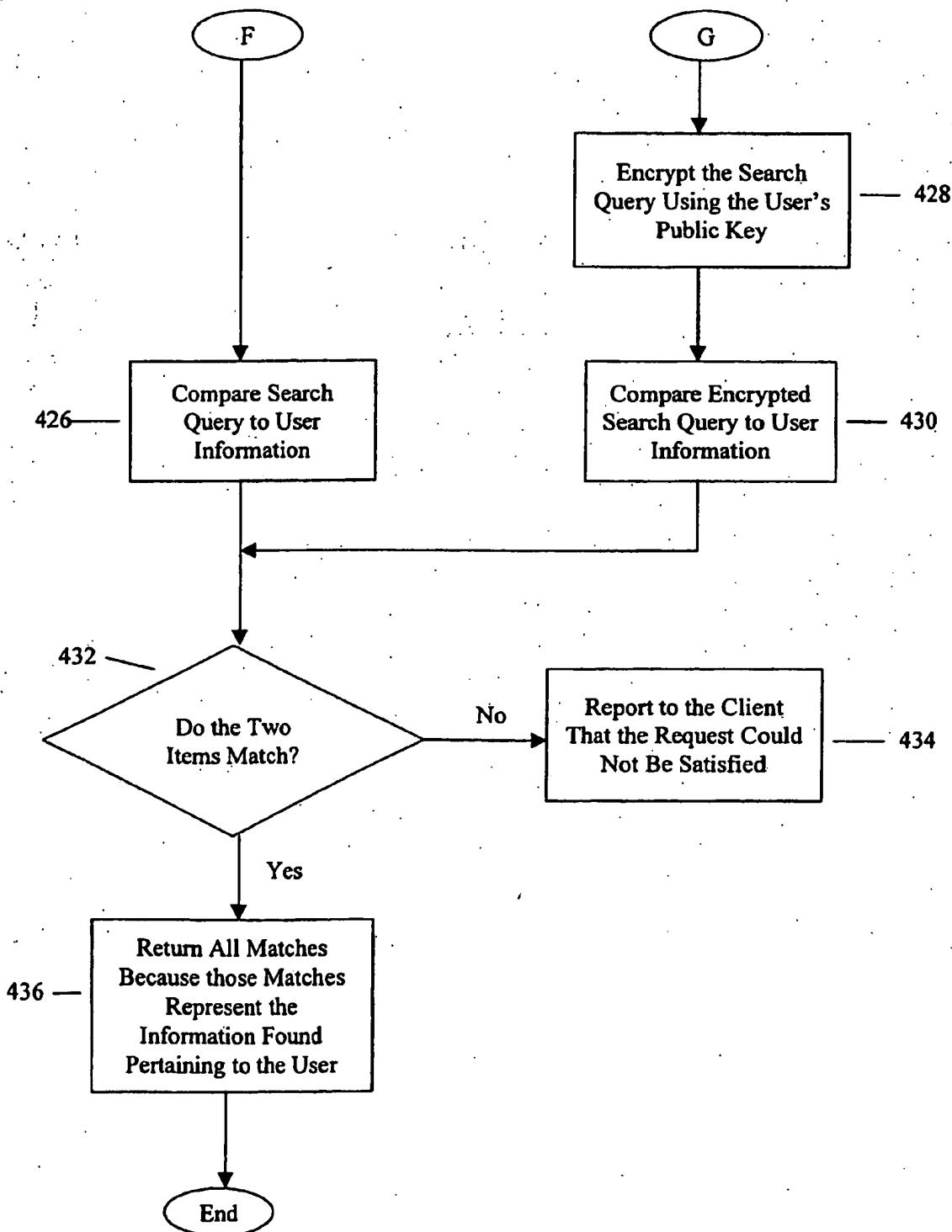
Search Operation



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FIG. 4 (continued)

Search Operation



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FIG. 5

Accessing Sensitive Data

